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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,116	09/18/2006	Motohiro Ikawa	046262-0143	9927
	7590 09/04/200 LARDNER LLP	EXAMINER		
SUITE 500	T NIW	MONIKANG, GEORGE C		
3000 K STREE WASHINGTO			ART UNIT	PAPER NUMBER
			2615	
			MAIL DATE	DELIVERY MODE
			09/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/593,116	IKAWA, MOTOHIRO		
Office Action Summary	Examiner	Art Unit		
	GEORGE C. MONIKANG	2615		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 22 Ma This action is FINAL . 2b) ☐ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 13-21 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 13-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acceed applicant may not request that any objection to the or	vn from consideration. r election requirement. r. epted or b) objected to by the I			
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	ACTION OF FORM PTO-152.		
 Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/593,116. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/18/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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DETAILED ACTION

Response to Amendment

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 13-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Bironas et al, US Patent 5,513,268.

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Re Claim 13, Bironas et al discloses a sound-volume controlling method comprising: specifying an arbitrary first range of steps from a predetermined number of control steps through which a sound volume is to be varied at a first change rate (*col.* 6, *line* 56 trough col. 7, *line* 7), the predetermined number of control steps corresponding to a predetermined output sound volume control range over which the sound volume may be varied (*col.* 6, *line* 56 trough col. 7, *line* 7); changing the first change rate of the first range of steps to a second change rate lower than the first change rate and changing the first change rate of a second range of the predetermined number of control steps other than the first range of steps to a third change rate higher than the first change rate (*col.* 6, *line* 56 trough col. 7, *line* 7); and controlling the sound volume over a range corresponding to the first range of steps based on the second change rate (*col.* 6, *line* 56 trough col. 7, *line* 7).

Re Claim 14, Bironas et al discloses the sound-volume controlling method according to claim 13, wherein the changing includes changing the first change rate of a third range of the predetermined number of control steps other than the first and second ranges of control steps to the third change rate (*col.* 6, *line* 56 trough col. 7, *line* 7).

Re Claim 15, Bironas et al discloses the sound-volume controlling method according to claim 13, wherein the changing includes changing the first change rate of a third range of the predetermined number of control steps other than the first and second ranges of control steps to a fourth change rate higher than the first change rate and different from the third change rate (*col.* 6, *line* 56 trough col. 7, *line* 7).

Re Claim 16, Bironas et al discloses the sound-volume controlling method according to claim 13, wherein the specifying includes specifying all of the predetermined number of control steps (*col. 6, line 56 trough col. 7, line 7*), and the changing includes changing the first change rate of all of the predetermined number of control steps to a fifth change rate lower than the first change rate (*fig. 5; col. 6, line 56 trough col. 7, line 7*).

Claim 17 has been analyzed and rejected according to claim 13.

Re Claim 18, Bironas et al discloses the sound-volume controller according to claim 17, further comprising a storage unit that stores therein a pattern of a volume change amount per step as a volume control curve (<u>fig. 5; col. 6, line 56 trough col. 7, line 7</u>), wherein the changing unit changes the volume change amount per step based on the volume control curve (<u>fig. 5; col. 6, line 56 trough col. 7, line 7</u>).

Claims 19 & 21 have been analyzed and rejected according to claim 1.

Claim 20 has been analyzed and rejected according to claim 18.

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GEORGE C. MONIKANG whose telephone number is (571)270-1190. The examiner can normally be reached on M-F. alt Fri. Off 7:30am-5:00pm (est).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin Vivian can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George C Monikang/ Examiner, Art Unit 2615

9/2/2008

/Vivian Chin/ Supervisory Patent Examiner, Art Unit 2615